

## Michigan Sustainable Homes & Businesses Tour Part of the ASES National Solar Tour

October 10, 2009

10 am - 4 pm

The solar tour is **free** and **self-guided**. Visit as many sites as you would like from 10am to 4pm, in any order that you would like. Enjoy the good energy, and have fun!



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### ***Greater Ann Arbor Solar Tour***

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**Ann Arbor Farmers Market  
315 Detroit St Ann Arbor, MI 48104**



The sunshine that grows our food is now powering the Ann Arbor Farmers Market! Paid for by a grant from the Ann Arbor Downtown Development Authority, this 10-kilowatt solar electric system uses Uni-Solar panels to produce about a third of the Market's annual electricity use. The Farmers Market Solar Project is also part of the Ann Arbor Solar America City Partnership, which is working to educate residents about solar energy and integrate solar into our community. Solar America City partners include the Ann Arbor Energy Office, DDA, Clean Energy Coalition, Great Lakes Renewable Energy Association, and Uni-Solar.

An educational kiosk is being developed to accompany the solar project and will be installed later this fall along Fifth Avenue. The kiosk is being designed by the Ann Arbor Hands-On Museum and is funded through a grant from the Michigan Energy Office.

[Click Here](#) **For Google area map**

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**Barclay Dream Farm**  
**4445 Valentine Road, Whitmore Lake**



The Barclay-Ledvina Dream Farm (DreamFarm.org), a retrofit of a 1981-built home, boasts multiple efficiency measures (cellulose attic insulation, targeted polyisocyanurate blown-in foam, energy efficient windows, LED and CFL bulbs), a solar hot water system (81 sq ft. of Heliodyne Gobi collectors in external closed loop), wood space heating (Encore wood burning stove by Vermont Castings-lowest emissions in the industry), and one of the largest residential solar-electric tracking arrays in Michigan (grid-tied 3.2 kW array of sixteen Sanyo HIP-200 watt modules mounted on a Wattsun AZ-225 tracker) which generates more electricity than we use on an annual basis.

More pictures and information about our systems of our may be found at our website, <http://www.dreamfarm.org/>.

**Directions:**

From US-23, take exit 49 (Territorial Rd). Go 2.3 miles west on Territorial Rd to Jennings Rd. Go North on Jennings Rd for 1 mile, then go west on Valentine Rd for 1 mile to the Dream Farm, 4445 Valentine Rd, on the left.

[Click here](#) for Mapquest area map

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**Douglas Home**  
**1837 Smith Rd., Bedford Township, Temperance MI**

Our home features proper south-facing orientation; a passive solar room with appropriate glazing, including concrete floor (thermal mass) and both passive and active transport system (French doors for passive transport and a thermostatically controlled fan for active transport of the heat); geothermal (horizontal loop) system by Water Furnace; and super insulation including both fiberglass (batts and blown-in) as well as an ESP

(Environmentally Safe Products Co) aluminum and poly-foam sandwich products in the walls (Low-E product) and under the foundation slab (Slab shield product).

**Directions:**

From US-23 take exit 1 to Sterns Rd. Turn left onto Sterns rd. Drive down and take a right at Whiteford Center rd. There is a slight left to get onto Smith Rd.

Click [here](#) for a Google map

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**Dotson's Mobile Solar Generation Units**  
**8895 Kearny Rd, Whitmore Lake, MI**



Our mission is to provide you with innovative information on how to use energy wisely now. Together we can enjoy a cleaner, healthier and safer environment now and in the future. We started as average homeowners, just like you. We realized that we could make simple changes in our lives and in our homes without sacrificing the conveniences we love. We have succeeded in reducing our energy costs by two-thirds. We want to help you do the same. We have a solar hot water system, 640 watt off and on grid transportable mobile unit. 700 watt grid tied system. 1500 watt portable power pack ac/dc. 2 solar pond fountains. Solar powered heating and cooling fan. Indoor solar lighting.

**Directions:**

Exit 53 On US 23 coming from the North, Left on to Main Street. Take down to Barker Rd turn Right go 1 mile, turn left onto Kearney Rd go 1/2 mile location on right. Exit 53 on US 23 coming from the South, Turn right onto Main street. Take down to Barker Rd turn right, go one mile turn left on Kearney go 1/2 mile location on right.

Click [Here](#) for a Google area map.

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**En-house Resource Center, Recycle Ann Arbor**  
**2420 South Industrial Hwy, Ann Arbor**



The Environmental House Energy & Green Building Resource Center (EnHouse) is a comprehensive resource and touring facility dedicated to furthering the causes of green building, energy efficiency and renewable energy.

The EnHouse staff and resources will help you to discover programs, techniques, projects and service providers that will help you to ensure that your next project is safe for its inhabitants, stands up to the test of time, and treads lighter on the natural environment.

The Environmental House will be offering tours of the photovoltaic array and control equipment from 10 am to 4pm.

**Directions:**

**From Ann Arbor:** From the intersection of Main St. and Huron St go South on S Main St toward W Washington St. Turn left onto E Stadium Blvd. Turn right onto S Industrial Hwy.

**From Ypsilanti:** Take I-94 W to the State St exit- Exit 177. Turn right onto S State St. Turn right onto E Eisenhower Pkwy. Turn left onto S Industrial Hwy.

[Click here](#) for Mapquest area map

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**Lauzzana Home**  
**2725 West Ellsworth, Ann Arbor**



This house constructed in 1954 has a long east-west axis, allowing for ample southern glazing and solar thermal gain. To the north the roof pitches down to minimize exposure to the cold winds. The west is protected from the winds by the garage and has few windows to prevent overheating. The east opens to the sun for morning heat gain and light for the bedrooms. A black panel solar thermal array provides 30% of the heat and protects the house in the summer, almost eliminating the need for air-conditioning. The panels trap the sun's heat, while a thermostatic electric fan pulls air through the array and into the house.

A solar porch addition on the second floor was constructed with reclaimed windows from Recycle Ann Arbor and seconds from Fingerle Lumber. Serving the double function of trapping the sun's heat in the winter and providing a buffer in the summer, porch is controlled by a thermostatic electric fan.

Backyard Habitat certified with the National Wildlife Federation. Organic garden onsite.

Home also features high efficiency appliances and lights and a straw bale shed with a green roof.

### **Directions:**

**From Ann Arbor:** From the intersection of Main St and Huron start out going South on S. Main St. S. Main St becomes Ann Arbor Saline After passing Maple turn left onto Ellsworth. The home is the first drive on the left after the UU Church parking lot. Look for the pile of stones at the road.

**From Ypsilanti:** From the intersection of Michigan and Hamilton, head West on Michigan. After about 2 miles, turn right onto Ellsworth. Follow Ellsworth. It will turn to a dirt road past Maple. House is the last drive before the church parking lot. Look for the pile of stones at the road.

[Click here](#) for Mapquest area map

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Visit our Demonstration Center and see a variety of working solar applications that can be retrofitted to existing homes and businesses. See how we light our office with Solatubes, heat our water with a Solar Boiler and power our computers and phones with Wind and Photovoltaic systems. Check out our Solar Wall and Solar Hot Air Panels used to assist the heating of our building during the winter months. Also, learn about the advantages of Solar Attic Fans and Solar Pool Heating systems. We offer high efficiency heating and cooling equipment to promote energy conservation, as well. Let us share our 22 years of Solar expertise as you walk through our building and discover how you can become an energy advocate, and control your future energy needs!

#### **Directions:**

8130 Canton Center Rd., Canton, MI 48187  
[HTTP://www.by-solar.com/directions.html](http://www.by-solar.com/directions.html)

**From Ann Arbor:** Take US-23-BR N / M-14 E. Merge onto MI-14 E. Merge onto Ford Rd / MI-153 E via Exit 10. Turn left (north bound) onto Canton Center Rd. At first light past Warren Rd. turn left to stay on Canton Center Rd, we are located a 1/4 mile down on the east side.

**From Ypsilanti:** From the intersection of Cross and Prospect, head north on Prospect Turn right onto Ford Rd / MI-153. Turn left (north bound) onto Canton Center Rd. At first light past Warren Rd. turn left to stay on Canton Center Rd, we are located a 1/4 mile down on the east side.

**From Detroit:** Take US-96 W to I-275 N. Exit Ann Arbor Rd, turn right (west bound) on to Ann Arbor Rd., follow to Sheldon Rd., turn left (south bound) to Joy Rd. turn right (west bound), follow to Canton Center Rd., turn left (south bound). We are located a 1/2 mile down on the east side of Canton Center Rd.

[Click here](#) for Mapquest area map

#### **Michcon Nature House at the Leslie Science and Nature Center**

**1831 Travers Blvd. Ann Arbor MI**



The Nature House at the Leslie Science and Nature Center is a wonderful example of green technology. The building features two types of solar arrays and thermal panels for domestic hot water. The building also has composting toilets, a gray water planting bed, and lots of recycled or recyclable surfaces.

**Directions:**

The Center is located in northern Ann Arbor. Take the Barton Road exit off of 14. Stay on Barton until it intersects with Traver Road. Turn left on Traver. Go 1.5 blocks.

[Click here](#) for Mapquest area map

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**The Nautilus House**

341 Evergreen Place Ann Arbor, MI 48104



Meadowlark Builders and Architectural Resource follow up last year's entry with Michigan's second LEED (Leadership in Energy and Environmental Design) Platinum remodel. Designed for and with our homeowner, a found-object artist, this home was transformed from a 50's split-level into a state-of-the-art modern home that is future-ready with geothermal energy and full solar photovoltaics. Vibrant, funky and fun, this house is an eclectic beauty, inside and out. A collaboration between the Homeowner, Architectural Resource and Meadowlark Builders, this is truly a one-of-a-kind project!

**Directions:**

Off of Geddes Rd Ann Arbor Mi

Click [here](#) for a Google Map

**Wolterwald**  
**10576 Fleming Road, Dexter**



A naturally bright, open, owner designed and built, home featuring both passive and active solar heating. Located west of Dexter, this home utilizes concrete reinforced foam exterior walls for insulation, hot water radiant floor heating, active ventilation, 240 square feet of solar hot water panels, and many other energy efficient features.

**Directions:**

From Ann Arbor: Take I-94 west to Baker Road, Exit 167. Turn right onto Baker Road and continue until it ends in a T. Turn left and go straight through the village of Dexter. Continue over the creek and under the old stone railroad viaduct. Stay on left fork-Island Lake Road-2.6 miles. Turn right onto Dexter-Town hall-0.6 miles. Turn right onto Fleming (dirt road). From Lansing: Take I-96 east to M-52. Turn right (south) onto M-52. Turn left onto North Territorial Road. Turn right onto Dexter-Town hall Road-2.3 miles. Turn left onto Fleming (dirt road).

From Ypsilanti: Take I-94 W to the Baker Rd. exit- Exit 167- toward Dexter. Turn right onto Baker Rd. Turn left onto Shield Rd. Turn right onto N Parker Rd. Turn slight right onto Dexter-Chelsea Rd. Turn left onto Dexter Pinckney Rd. Dexter Pinckney Rd becomes Island Lake Rd. Turn right onto Dexter-Town hall Rd. Turn right onto Fleming (dirt road).

**Ypsilanti Food Co-op**  
**312 N River Street, Ypsilanti**



The Ypsilanti Food Co-Op building features a 2280 watt photovoltaic installation, equipped with watt meters to monitor the energy consumption and generation. The system is also connected with DTE Energy with net-metering. They will have tour guides available from 10:00am to 4:00pm to explain how the system works. Phone #734-483-1520 / Web: [www.ypsifoodcoop.org](http://www.ypsifoodcoop.org)

**Directions:**

**From Ann Arbor:** From Ann Arbor: Take I-94 E toward Detroit. Take the Huron Street / US-12-BR (Exit 183) toward Downtown Ypsilanti. Turn left onto US-12 BR E / S Huron Street. Take for one mile. Turn right onto W Michigan Avenue / US-12 BR / MI-17. Turn left onto N River Street. The co-op is about 0.2 miles down the road.

[Click here](#) for Mapquest area map

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**Great Lakes Renewable Energy Association**

URL: [www.michigan.gov/deleg](http://www.michigan.gov/deleg)

Email: [mshbt@glrea.org](mailto:mshbt@glrea.org)

Lansing:

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